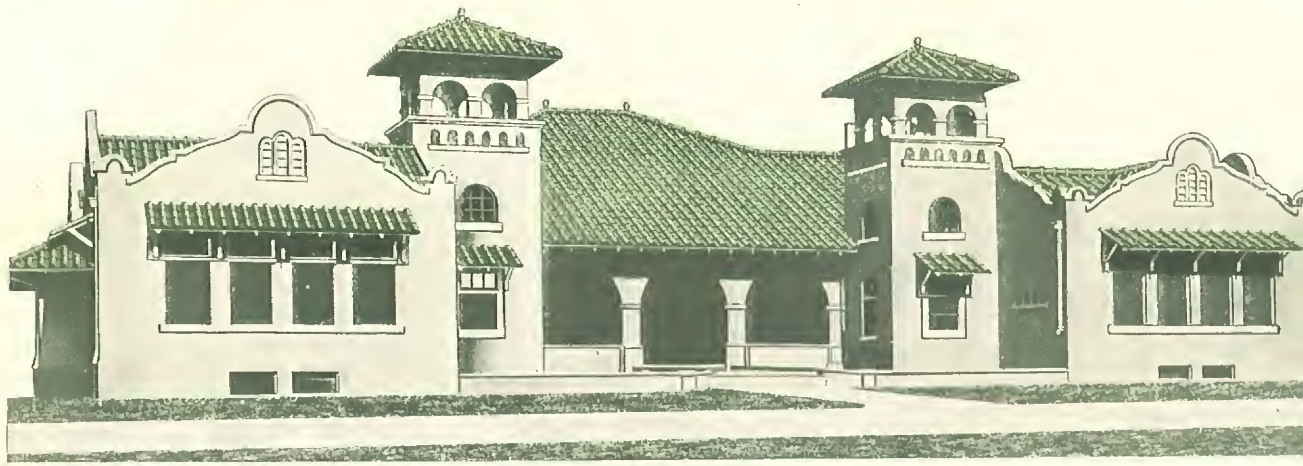




SHINGLES &  
SPANISH TILE  
of COPPER

THE EDWARDS MANUFACTURING COMPANY, CINCINNATI, O.  
DETROIT COPPER & BRASS ROLLING MILLS, DETROIT, MICH.



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# COPPER

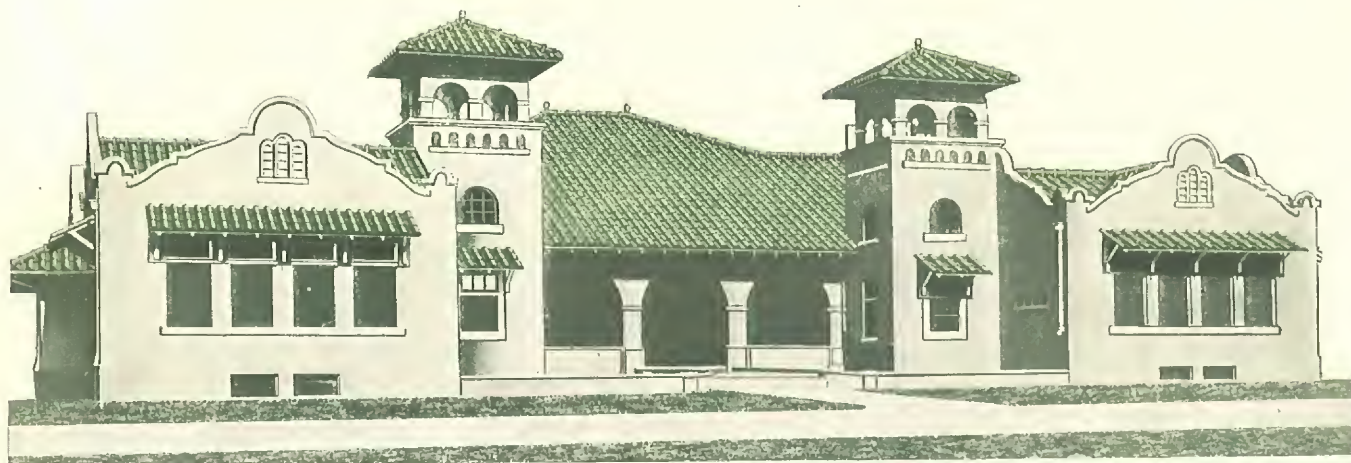
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*Copper*—the name alone inculcates on one's mind a metal of almost everlasting durability — a metal that has been in common use among the more civilized nations since the earliest dawn of history.

*Copper*—a metal that is impervious to the actions of the elements — a metal whose appearance improves with its years of service.

What could add more to the value and attractiveness of a building than a Copper Shingle or Spanish Tile roof in its aged color?

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# COPPER

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**T**HE use of Copper for roofing has been restricted by the assumption that on account of its cost, being higher than that of numerous other materials used for roofing, a copper roof was practically a luxury and too expensive for ordinary use. That copper is the ideal roof covering from every view-point has always been recognized.

Careful and exhaustive investigation has proved that copper of the highest grade converted into a properly constructed Shingle or Tile can be made available to the Home Builder at a cost, in many cases, less than that for slate or clay-tile. To consummate this result has been the aim of two experienced and reliable factors:

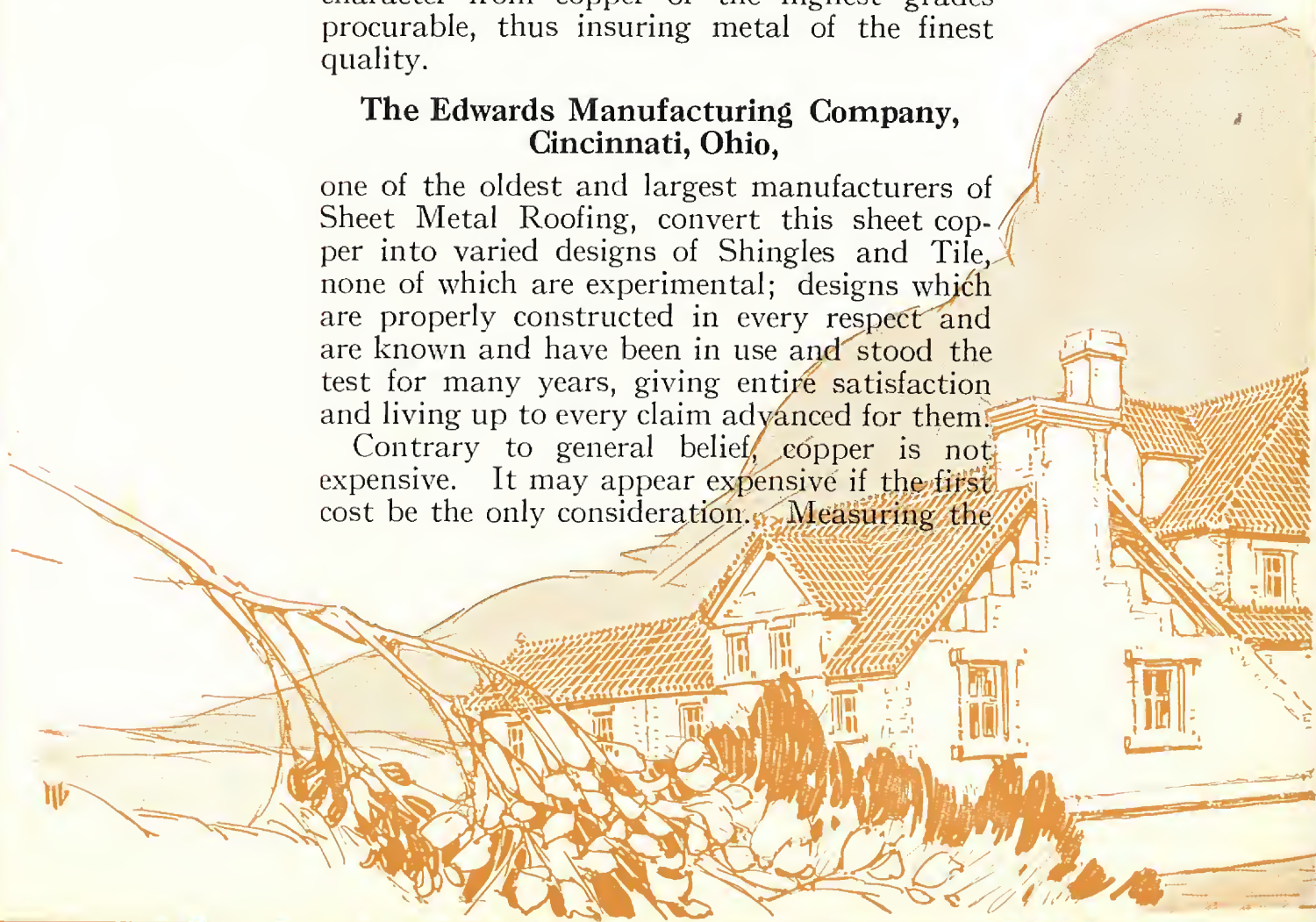
**Detroit Copper & Brass Rolling Mills,  
Detroit, Michigan,**

for upwards of forty years one of the largest and most prominent manufacturers of Sheet Copper, produce and furnish sheets of the most suitable character from copper of the highest grades procurable, thus insuring metal of the finest quality.

**The Edwards Manufacturing Company,  
Cincinnati, Ohio,**

one of the oldest and largest manufacturers of Sheet Metal Roofing, convert this sheet copper into varied designs of Shingles and Tile, none of which are experimental; designs which are properly constructed in every respect and are known and have been in use and stood the test for many years, giving entire satisfaction and living up to every claim advanced for them.

Contrary to general belief, copper is not expensive. It may appear expensive if the first cost be the only consideration. Measuring the



cost per years of service it is the cheapest of all roof coverings. The initial cost is naturally higher than that of some other materials used for roofing, but the first cost is the only cost of a roof of "Edwards" Patented Interlocking Copper Shingles and Copper Tile. There are no up-keep costs, no repairing, painting or replacing. The elements have no effect upon them only changing their color to a beautiful copperas green. They add distinction to any structure with a charm and beauty that endures. This roof will outlast the structure it beautifies and protects.

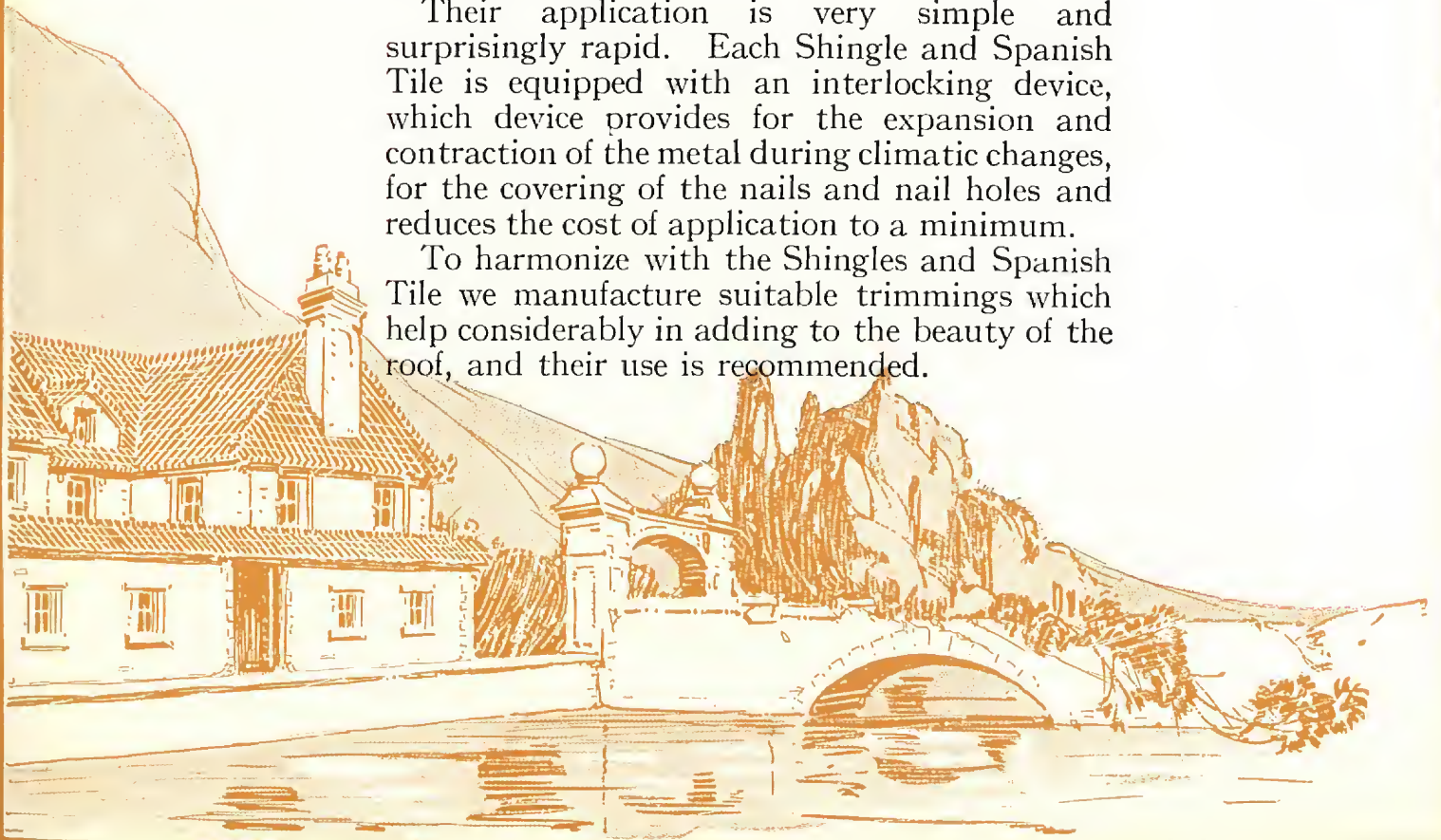
It is worthy of comment that when the structure is finally razed the copper roof will have a salvage value of in the neighborhood of one-third of its cost.

In offering our Shingles and Spanish Tiles of Copper we place within your reach the longest-lasting as well as most attractive appearing roof covering of the present day, they being suitable for any type of building that has roof pitch of one-fourth or greater.

Owing to their moderate weight, which ranges from 80 to 175 pounds to the square, dependent on the style, no special construction nor roof-bracing is required.

Their application is very simple and surprisingly rapid. Each Shingle and Spanish Tile is equipped with an interlocking device, which device provides for the expansion and contraction of the metal during climatic changes, for the covering of the nails and nail holes and reduces the cost of application to a minimum.

To harmonize with the Shingles and Spanish Tile we manufacture suitable trimmings which help considerably in adding to the beauty of the roof, and their use is recommended.



REALIZING THE NEED FOR SHINGLES WITH DESIGNS TO CONFORM WITH THE VARIOUS ORDERS OF ARCHITECTURE WE MANUFACTURE A WIDE SELECTION OF PATTERNS WHICH PERMIT OF AN EVERLASTING COPPER SHINGLE ROOF ON A BUILDING OF ANY PERIOD.

## *"Roman"* Copper Shingles

Size 10 x 14 inches



Here is a decided novelty—a pattern that will enhance the appearance of any building.

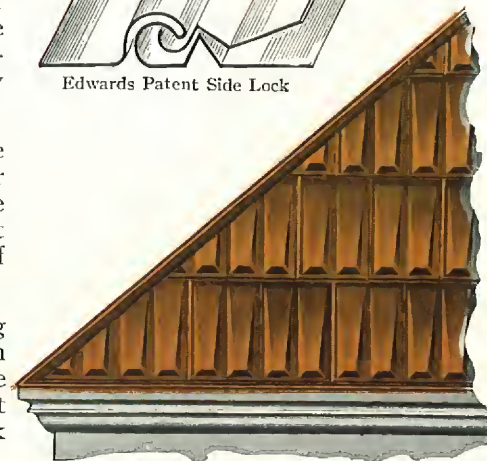
As its name implies, tiles of this pattern helped to make the Roman villages of twenty centuries ago the marvels of beauty that they were.

The deep depressions of the design form a large dead air space under each shingle, more effectually keeping out the heat of summer and the cold of winter.

The Edwards Interlocking Device makes joints at both ends and sides so firm and secure that water positively can not work in and wind can not work them loose.



Edwards Patent Side Lock



A COPPER SHINGLE OR SPANISH TILE ROOF IS AN INVESTMENT AND NOT AN EXPENSE.

## *"French Slate"* Copper Shingles

Size 10 x 14 inches

A roof of "FRENCH SLATE" copper shingles will lend charm and dignity to any dwelling.

The design was modelled by our artist after a careful study of roofs in France and other European countries.

There is only one kind of a roof that will endure indefinitely and this one kind is copper which endurance with pleasing appearance makes our "FRENCH SLATE" Copper shingles a very popular roof covering.

Our ornamental fixtures such as ridge and hip finish and finials harmonize very well with this pattern.



Edwards Patent Side Lock



A ROOF OF COPPER SHINGLES OR SPANISH TILE WILL LOWER THE COST OF INSURANCE.

## *"Queen Anne"* Copper Shingles

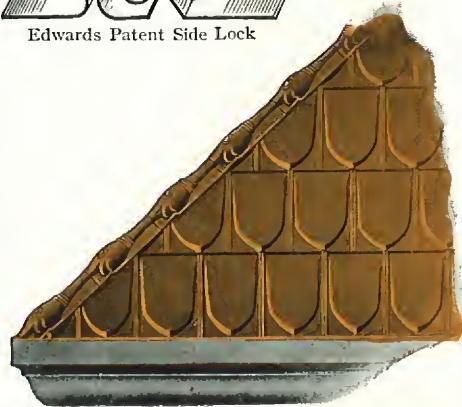
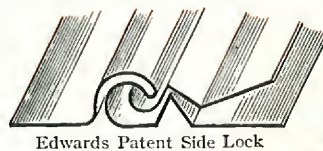
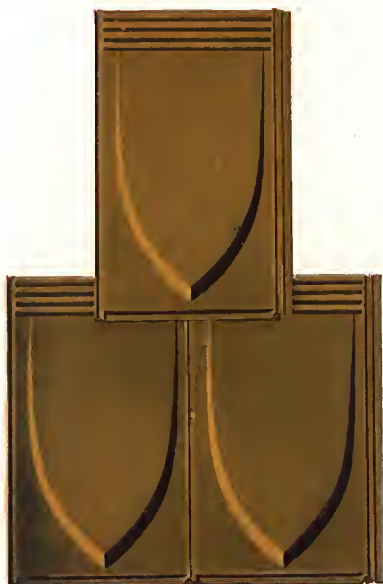
Size 10 x 14 inches

The chaste beauty of this design makes the "QUEEN ANNE" design shingle roof one of eye-catching charm.

The embossing is deep and clean cut, producing, when laid, a very striking effect.

This deep embossing also allows free circulation of the air, which is a great aid in keeping the roof cool in summer.

An Edwards Copper shingle roof is the cheapest roof covering—measuring the cost per years of service. Replacements are never necessary for they cannot freeze nor crack and will outlast the building to which they are applied.



COPPER SHINGLES AND SPANISH TILE ARE ABSOLUTELY FIRE-PROOF.

## *"Rookwood"* Copper Shingles

Size 10 x 14 inches

The "ROOKWOOD" is quite similar in design to the "Queen Anne" Shingle and we recommend either pattern where ornamentation or a fine architectural effect is desired.

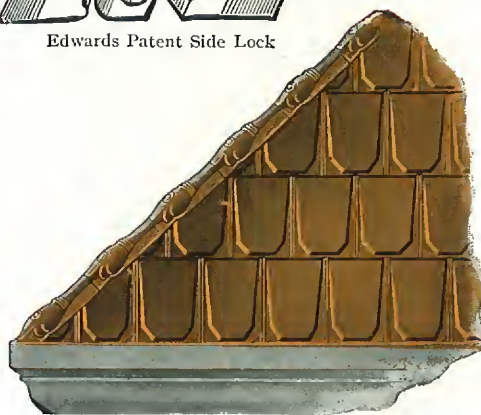
The roof is an important determining factor in the beauty of a home and therefore deserves every consideration, for an unattractive roof on an otherwise fine looking house mars the entire effect.

On the other hand, oftentimes, an attractive roof is the making of some of our medium priced houses whose lines otherwise would be so plain as to become monotonous to the eye.

Our "ROOKWOOD" shingles are very much in demand on buildings of the Colonial period as they are in keeping with this order.



Edwards Patent Side Lock



IT IS RECOMMENDED THAT WITH SHINGLES AND SPANISH TILE OF COPPER, THE NECESSARY FIXTURES OR TRIMMINGS, SUCH AS RIDGE AND HIP COVERINGS, VALLEYS, GUTTERS AND CONDUCTOR PIPES ALSO BE OF COPPER.

## Roof Fixtures of Copper

### EDWARDS GABLE FINISH AND ROOF STARTER

Made in 8 foot lengths.



Fig. 396

The shingles are inserted in the slot over the nailing flange, as shown, thus protecting the nail heads from the weather. Makes a very neat ornamental finish for your roof.

### EDWARDS PORCH FLASHING

Made in 8 foot lengths.



Fig. 366

To be used as an end wall flashing only, not down the slope of the roof.



Fig. 427

Side Wall Flashing  
Girt 10 in.



Fig. 423

Gable End Flashing  
Girt 8 in.

Made in 8 foot lengths.

### "IMPERIAL" RIDGE ROLL

Made in 8 foot lengths.

Applied before the last or upper course of shingles.



Fig. 362

Is made from one piece of metal, folded as shown, the shingles being inserted into the folds over the nailing flanges, thus protecting the nail heads from the weather.

### "IMPERIAL" VALLEY

Made in 8 foot lengths.



Fig. 361.

In laying Valley, cut shingle to extend about  $\frac{1}{2}$ -inch over lock and bend it under. In starting from valley, hold several shingles together and tack at top; with a straight edge, mark and cut where they overlap the valley; with a pair of tongs edge and lock them to the valley.

### HIP OR RIDGE FINISH WITH FOLDED APRON

Made in 8 foot lengths.



Fig. 394

THE FINIALS SHOWN BELOW ARE FOR USE WITH FIGURE 394 HIP OR RIDGE FINISH



Fig. 401  
Gable Finial  
Height 9 in.  
Width  $5\frac{1}{2}$  in.  
Depth 10 in.



Fig. 402  
4-Hip Finial  
Height 9 in.  
Width 9 in.



Fig. 403  
Hip Starter  
Height 4 in.  
Width  $5\frac{1}{2}$  in.  
Length 12 in.



Fig. 404  
3-Way Finial  
2 Ridges, 1 Hip  
Height 9 in.  
Width 12 in.



Fig. 405  
3-Way Finial  
2 Hips, 1 Ridge  
Height 9 in.  
Width 12 in.

# The Edwards Roof Gutters of Copper

Made in 8 foot lengths.



Roof Gutter—Style A

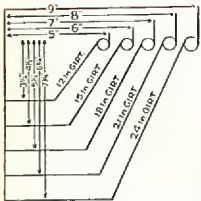
14-inch Girt,  $\frac{5}{8}$ -inch Bead  
20-inch Girt,  $\frac{5}{8}$ -inch Bead  
24-inch Girt,  $\frac{5}{8}$ -inch Bead



Roof Gutter—Style B

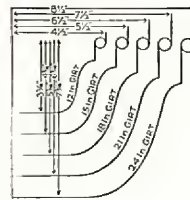
15-inch Girt,  $\frac{5}{8}$ -inch Bead  
20-inch Girt,  $\frac{5}{8}$ -inch Bead  
24-inch Girt,  $\frac{5}{8}$ -inch Bead

## O - G or Box Gutters



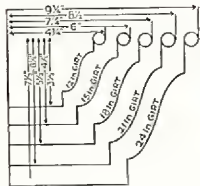
Style D

Size, 5 inches; Depth,  $3\frac{1}{2}$  inches; Girt, 12 inches.  
Size, 6 inches; Depth,  $4\frac{1}{2}$  inches; Girt, 15 inches.  
Size, 7 inches; Depth,  $5\frac{1}{2}$  inches; Girt, 18 inches.  
Size, 8 inches; Depth,  $6\frac{3}{4}$  inches; Girt, 21 inches.  
Size, 9 inches; Depth, 8 inches; Girt, 24 inches.



Style F

Size,  $4\frac{1}{2}$  inches; Depth,  $3\frac{3}{4}$  inches; Girt, 12 inches.  
Size,  $5\frac{1}{2}$  inches; Depth,  $4\frac{3}{4}$  inches; Girt, 15 inches.  
Size,  $6\frac{1}{2}$  inches; Depth,  $5\frac{3}{4}$  inches; Girt, 18 inches.  
Size,  $7\frac{1}{2}$  inches; Depth,  $6\frac{3}{4}$  inches; Girt, 21 inches.  
Size,  $8\frac{1}{2}$  inches; Depth,  $7\frac{3}{4}$  inches; Girt, 24 inches.



Style G

Size,  $4\frac{3}{4}$  inches; Depth,  $3\frac{1}{2}$  inches; Girt, 12 inches.  
Size, 6 inches; Depth,  $4\frac{1}{2}$  inches; Girt, 15 inches.  
Size,  $7\frac{1}{4}$  inches; Depth,  $5\frac{1}{2}$  inches; Girt, 18 inches.  
Size,  $8\frac{1}{2}$  inches; Depth,  $6\frac{1}{2}$  inches; Girt, 21 inches.  
Size,  $9\frac{3}{4}$  inches; Depth,  $7\frac{1}{2}$  inches; Girt, 24 inches.

## Combination Roof Gutters

Fig. 1



Fig. 2.

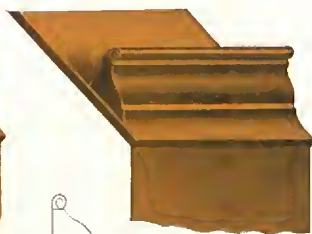


Fig. 3.



Fig. 1 shows face moulding to which gutter is to be attached.

Fig. 2 shows face moulding and gutter locked together and in position.

Fig. 3 shows different positions of gutter apron to give the required fall.

The illustrations opposite show a stop gutter and cornice combined, the most ornamental and effective production ever offered.

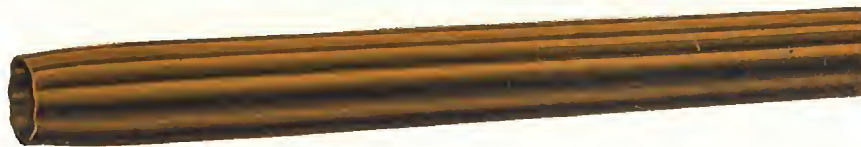
We also make this gutter in one piece, producing exactly the same effect. Please state if 1 or 2-piece gutter is wanted. Prices the same.

### EXPLANATION OF SIZES.

18-in. girt; face apron,  $1\frac{1}{4}$ -in.; depth,  $2\frac{3}{8}$ -in.; gutter apron, 8 -in.  
20-in. girt; face apron,  $1\frac{3}{4}$ -in.; depth,  $2\frac{3}{4}$ -in.; gutter apron,  $8\frac{3}{4}$ -in.  
24-in. girt; face apron, 3 -in.; depth,  $3\frac{1}{2}$ -in.; gutter apron, 10 -in.  
28-in. girt; face apron, 5 -in.; depth,  $3\frac{1}{2}$ -in.; gutter apron, 12 -in.

To give the required fall, draw the gutter apron up the roof, as shown in sectional view (Fig. 3).

## Round Corrugated Conductor Pipe of Copper



Due to the corrugations in this pipe it is very strong and one need not fear bursting, for even if it be frozen solid the corrugations will not permit of it bursting. Furnished in 2, 3, 4, 5 and 6-inch diameter.

## Flat Crimp Round Corrugated Elbows and Shoes



No. 0  
30 deg.

No. 1  
45 deg.

No. 2  
60 deg.

No. 3  
75 deg.

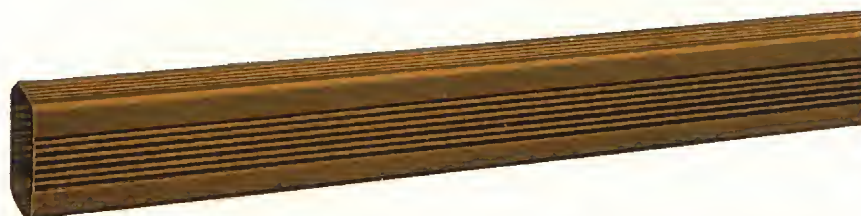
No. 4  
90 deg.

Shoe

The corrugations run parallel the entire length and make the curves in unison with the pipe. Furnished same diameter as pipe.

## Square Corrugated Conductor Pipe

Made in 8 foot lengths.

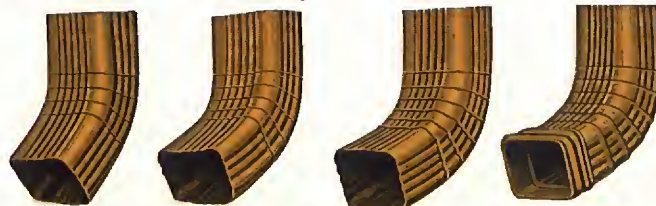


Has the same expansion and contraction features as the round pipe but much more attractive in appearance. Furnished in sizes as follows:

$1\frac{3}{4}'' \times 2\frac{1}{4}''$ , capacity equal to 2" round pipe.  
 $2\frac{5}{8}'' \times 3\frac{1}{4}''$ , capacity equal to 3" round pipe.  
 $2\frac{3}{4}'' \times 4\frac{1}{4}''$ , capacity equal to 4" round pipe.  
 $3\frac{3}{4}'' \times 5''$ , capacity equal to 5" round pipe.

## Flat Crimp Square Corrugated Elbows and Shoes

Style A



No. 1

No. 2

No. 3

Shoe

Style B.



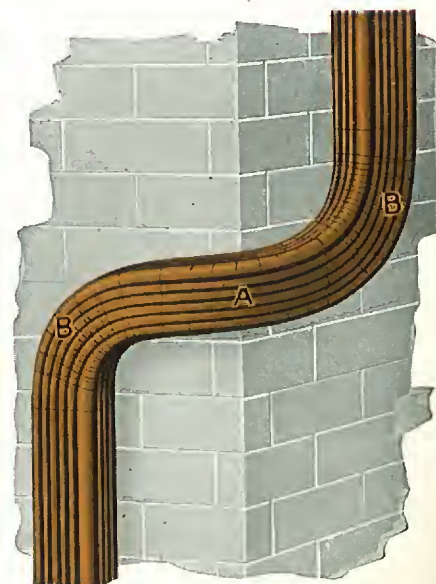
No. 1

No. 2

No. 3

Shoe

Note in illustration opposite how by combination of styles A and B, a square conductor can be made to turn the corner of a building as readily as the round conductor pipe.



# Spanish Tile of Copper



Just glance at the above picture and see if you do not agree that it would be exceedingly difficult, if not, indeed, impossible, to construct a more beautiful, more artistic roof than this. Notice how sharply the moulding of each individual tile is defined and how harmoniously the entire roof blends with the general outlines of the building.

The history of the Spanish Tile is an interesting one. Centuries ago when the Moors were driven out of Spain they left behind them the art of making beautiful earthenware roofing tiles that lend such charm to many of the ancient buildings still standing in that historic country.

Thousands of people have admired these decorative, harmonious earthenware Spanish Tiles, and wished to have their roofs similarly covered, but on account of their evident disadvantages have chosen a more practicable, though less beautiful, style of roof.

Their great weight, liability to breakage and displacement, with consequent leakage, and their high cost have kept them from common use.

We have produced in COPPER an exact reproduction of these beautiful Spanish Tiles and can furnish them at much less cost than the earthenware tiles. This enables you to enjoy all the beauty, ornament and advantages, without danger and disadvantages, and at a strikingly low cost.

IN OUR SPANISH TILES OF COPPER THE BEAUTIFYING POWERS OF THE MOORS HAVE BECOME  
THE PROPERTY OF THE PRACTICAL TWENTIETH CENTURY.

Each piece of Tile, as well as every fixture, is an exact piece of workmanship and absolutely perfect, so that the application of a SPANISH TILE ROOF OF COPPER is very simple, and, when completed, positively watertight.



Fig. 367  
Metal Spanish Tile for main  
part of roof.



Fig. 369  
Metal Spanish Tile Starter  
or Eave Tile, with closed  
end for edge of roof at  
gutter.



Fig. 399  
Metal Spanish Tile Side Wall  
Flashing.



Fig. 400  
Metal Spanish Tile Gable  
Starter.



Fig. 409  
Metal Spanish Tile

Ridge flashing, nailed to 2 x 4 on ridge. Ridge finish (Fig. 414), fastened to flashing with cleats, 28 inches long.



Fig. 414  
Metal Spanish Tile

Hip or ridge finish. Height, 6 inches; width, 7 inches; length, 28 inches.

When used as hip finish, hip flashings, Figs. 424 and 425 must be used.

When used as ridge finish, Fig. 409 must be used.



Fig. 424

Metal Spanish Tile

Hip flashing, right.

Girt, 7 inches; length, 16½ in.



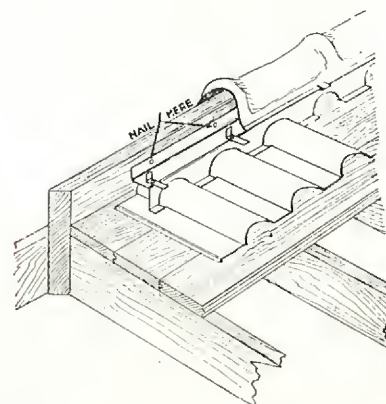
Fig. 425

Metal Spanish Tile

Hip flashing, left.

Girt, 7 inches; length, 16½ in.

NOTE—Hip flashing nailed to 2 x 4 on hips. Hip or ridge finish, Fig. 414, fastened to flashing with cleats.



Method of Applying Ridge Flashing, Fig. 409, and  
Ridge Finish, Fig. 414.



Fig. 416  
Metal Spanish Tile  
Valley Tile—Right



Fig. 417  
Metal Spanish Tile  
Valley Tile—Left  
Cut along dotted lines



Fig. 381  
"PERFECT" VALLEY  
For Tile Roofs

The particular advantage in using this style valley is that the bead acts as a gutter for any water that might possibly back up under the tile and carries off same into gutter at eaves, thereby insuring you a perfect watertight roof. This is why we call it the "Perfect" Valley.



Method of Locking Valley Tile  
into Valley.

Valleys as a rule are difficult to cut, but by using our right and left valley tile, and cutting along dotted line (see illustration) and bending tile into the lock of our "Perfect" Valley, this difficulty is done away with.



Fig. 313  
Metal Spanish Tile  
Gable Finial.  
Height, 17 in.; Width, 10 in.  
Length, 15 in.



Fig. 322  
Metal Spanish Tile  
4-Hip Finial.  
Height, 17 in.; Width, 17 in.



Fig. 332  
Metal Spanish Tile  
3-Way Finial  
2 Ridge, 1 Hip  
Height, 17 in.; Width, 17 in.



Fig. 397  
Metal Spanish Tile  
3-Way Finial  
2 Hips, 1 Ridge  
Height, 17 in.; Width, 17 in.



Fig. 430. Mansard Flashing.



Fig. 398  
Metal Spanish Tile  
Hip Starter.  
Height, 8 in.; Width, 7 in.  
Length, 18 in.



Fig. 379  
End Wall, Porch or Deck Flashing.

## Directions for Applying Spanish Tile of Copper

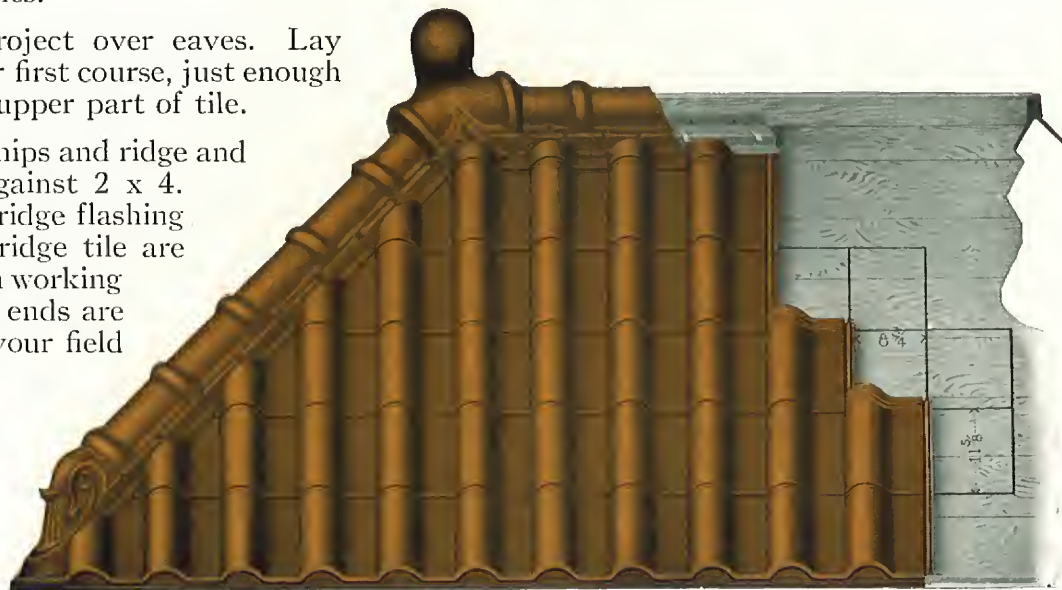
Line roof up and down and crosswise as shown above, keeping perpendicular lines at right angles with eave line.

Commence starting course at extreme left of roof, keeping bottom of tile true to eave line and true to perpendicular lines.

Do not let tile project over eaves. Lay next course lapping over first course, just enough to cover storm ribs on upper part of tile.

Put 2 x 4 strips on hips and ridge and cut tiles to butt up against 2 x 4. Then apply the hip or ridge flashing to which the hip and ridge tile are fastened with cleats. In working valleys, see that closed ends are kept in line, then lock your field tile to valley tile; that is, in starting.

In finishing, lock your valley tile to the field tile, watching to keep closed ends in line.





Detroit Copper & Brass Rolling Mills  
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SPANISH TILE  
of COPPER

THE EDWARDS MANUFACTURING COMPANY, CINCINNATI, O.  
DETROIT COPPER & BRASS ROLLING MILLS, DETROIT, MICH.

